



EPA Region 1 RAC 2 Contract No. EP-S1-06-03

February 24, 2020
Nobis Project No. 80021

Via Electronic Submittal

U.S. Environmental Protection Agency
Attention: Ms. Melanie Morash
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Subject: Transmittal of Residential Water Supply Results
Olin Chemical Superfund Site, Wilmington, Massachusetts
EPA Task Order No. 0021-RS-BD-01CH

Dear Ms. Morash:

Enclosed with this correspondence are the results of the private well groundwater sampling conducted to date that are available in our database. These include quarterly sampling results from October 2008 to September 2019. The enclosed tables have been redacted to remove references to addresses and tax map/lot numbers. A table cross-referencing the addresses and the location identifiers has been included as a separate file for EPA's use.

Should you have any questions or comments, please contact me at (603) 513-1003, or jlambert@nobis-group.com.

Sincerely,

NOBIS ENGINEERING, INC. dba NOBIS GROUP

A handwritten signature in blue ink that appears to read "Jennifer Lambert".

Jennifer Lambert, P.G.
Senior Hydrogeologist
on behalf of
Jeffrey Brunelle
Project Manager

Attachment

c: File 80021

Table 1
Analytical Results for Chemicals Detected in Private Wells – October 2008 Through September 2014

Analytical Results for Chemical Olin Chemical Superfund Site

Olin Chemical Superfund Site Wilmington, Massachusetts

Wilmington, MA
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-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
 ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells – October 2009 Through September 2010

Analytical Results for Chemical Olin Chemical Superfund Site

Wilmington, Massachusetts

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-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site
Wilmington, Massachusetts

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Sample Location	RES-02 (page 2)	
Sample Date	06/27/19	09/16/19
Sample Type	N	N
NDMA/NDPA (ng/L)		
N-Nitrosodimethylamine (NDMA)	0.56 J	ND
N-Nitroso-di-n-propylamine (NDPA)	ND	ND
Volatiles (ug/L)		
Carbon disulfide	--	--
Chloromethane	--	--
Methyl tert-butyl ether	--	--
Toluene	--	--
Semivolatiles (ug/L)		
2-Methylnaphthalene	--	--
4-Nitrophenol	--	--
Anthracene	--	--
Benzaldehyde	--	--
Benzo(a)anthracene	--	--
Benzo(a)pyrene	--	--
Benzo(b)fluoranthene	--	--
Benzo(g,h,i)perylene	--	--
Benzo(k)fluoranthene	--	--
Benzoic Acid	--	--
Bis(2-ethylhexyl)phthalate	--	--
Butylbenzylphthalate	--	--
Caprolactam	--	--
Chrysene	--	--
Dibenz(a,h)anthracene	--	--
Diethylphthalate	--	--
Di-N-Butylphthalate	--	--
Fluoranthene	--	--
Fluorene	--	--
Indeno(1,2,3-cd)pyrene	--	--
Isophorone	--	--
Naphthalene, 1-methyl-	--	--
Phenanthrene	--	--
Pyrene	--	--
Metals (mg/L)		
Calcium	--	--
Sodium	--	--
Metals (ug/L)		
Chromium	--	--
Chromium-Hexavalent	--	--
General Chemistry (mg/L)		
Ammonia	--	--
Chloride	--	--
Nitrate	--	--
Nitrite	--	--
Nitrogen, As Ammonia	--	--
Sulfate	--	--
Other Analyses (ug/L)		
Formaldehyde	--	--
Hydrazine	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site

Wilmington, Massachusetts

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Sample Location	RES-03 (page 1)																										
Sample Date	12/05/08	03/30/10	07/29/10	11/05/10	12/16/10	03/30/11	07/12/11	10/12/11	02/28/12	05/16/12	10/09/12	01/15/13	03/18/13	05/21/13	09/11/13	12/19/13	02/19/14	05/21/14	08/05/14	12/10/14	03/24/15	06/29/15	09/29/15	01/26/16	03/23/16	06/29/16	
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
NDMA/NDPA (ng/L)																											
N-Nitrosodimethylamine (NDMA)	ND	ND	ND	5	5.6	5.8	ND	ND	ND	ND	12	2.4 J	1.4 J	1.1 J	ND	ND	9.7	ND									
N-Nitroso-di-n-propylamine (NDPA)	--	ND	4 NJ	ND																							
Volatiles (ug/L)																											
Carbon disulfide	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloromethane	ND	ND	0.26 J	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methyl tert-butyl ether	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Toluene	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Semivolatiles (ug/L)																											
2-Methylnaphthalene	--	ND																									
4-Nitrophenol	--	ND																									
Anthracene	--	ND																									
Benzaldehyde	--	ND	0.21 J	ND																							
Benzo(a)anthracene	--	ND	0.037 J	ND																							
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzo(b)fluoranthene	--	ND																									
Benzo(g,h,i)perylene	--	ND																									
Benzo(k)fluoranthene	--	ND																									
Benzoic Acid	--	1.1 J	R	ND	R	--	--	ND	ND	R	ND	ND	R	ND	ND	ND											
Bis(2-ethylhexyl)phthalate	ND	9.9	0.74 J	2.3	ND	4.9	ND	0.71 J	ND	ND	ND	ND	--	0.63 J	ND	ND	ND	16 J	2.7 J	ND	ND	2 J	ND	ND	ND	ND	
Butylbenzylphthalate	--	ND	--	0.23 J	ND	ND	0.15 J	ND																			
Caprolactam	--	ND	R	ND	0.52 J	--	ND	0.45 J	ND	ND	ND	ND															
Chrysene	--	ND	--	ND																							
Dibenz(a,h)anthracene	--	ND	--	ND																							
Diethylphthalate	--	ND	--	0.065 J	ND																						
Di-N-Butylphthalate	--	1.5 J	ND	0.74 J	ND	--	ND	ND	ND	0.39 J	0.73 J	ND															
Fluoranthene	--	ND	--	ND	0.097 J	ND	ND																				
Fluorene	--	ND	--	ND																							
Indeno(1,2,3-cd)pyrene	--	ND	--	ND																							
Isophorone	--	ND	--	ND	0.3 J	ND																					
Naphthalene, 1-methyl-	--	ND	--	ND																							
Phenanthrene	--	ND	--	ND	ND	ND	ND	0.099 J	ND	ND	ND	ND	ND	0.097 J	ND	ND											
Pyrene	--	ND	--	ND																							
Metals (mg/L)																											
Calcium	67	60 J	59	68	65	57	50	--	--	--	--	--	--	--	--	78	--	--	--	--	--	--	--	--	--	--	--
Sodium	8.1	7.4	6.2	7.6	7.9	6.9	7.8	8.9	9	7.9	7	8.4	--	7.7	7.4	9.6	8	7.6	8.9	9	8.4	8.3	8.6	8.9	7.6	8.1	
Metals (ug/L)																											
Chromium	ND	10	ND	1.8 J																							

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site

Wilmington, Massachusetts

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Sample Location	RES-03 (page 2)													
Sample Date	09/28/16	12/06/16	01/04/17	03/28/17	06/20/17	09/27/17	12/12/17	03/27/18	06/12/18	09/25/18	12/06/18	03/21/19	06/27/19	09/16/19
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N
NDMA/NDPA (ng/L)														
N-Nitrosodimethylamine (NDMA)	ND	ND	--	ND	2.1	ND	ND	ND	ND	ND	0.34 J	ND	ND	ND
N-Nitroso-di-n-propylamine (NDPA)	ND	ND	--	ND										
Volatiles (ug/L)														
Carbon disulfide	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Semivolatiles (ug/L)														
2-Methylnaphthalene	ND	--	ND											
4-Nitrophenol	ND	--	ND											
Anthracene	ND	--	ND											
Benzaldehyde	ND	--	ND											
Benzo(a)anthracene	ND	--	ND											
Benzo(a)pyrene	ND	--	ND											
Benzo(b)fluoranthene	ND	--	ND											
Benzo(g,h,i)perylene	ND	--	ND											
Benzo(k)fluoranthene	ND	--	ND											
Benzoic Acid	ND	--	ND	ND	R	ND								
Bis(2-ethylhexyl)phthalate	ND	--	ND	2.6 J	ND	ND	ND	ND	3.7 J	ND	ND	ND	ND	ND
Butylbenzylphthalate	ND	--	ND											
Caprolactam	ND	--	ND	0.25 J	ND	ND	ND	0.34 J	ND	ND	ND	ND	ND	ND
Chrysene	ND	--	ND											
Dibenz(a,h)anthracene	ND	--	ND											
Diethylphthalate	ND	--	ND	ND	ND	ND	ND	0.66 J	ND	ND	ND	ND	ND	ND
Di-N-Butylphthalate	ND	--	ND											
Fluoranthene	ND	--	ND											
Fluorene	ND	--	ND											
Indeno(1,2,3-cd)pyrene	ND	--	ND											
Isophorone	ND	--	ND											
Naphthalene, 1-methyl-	ND	--	ND											
Phenanthrene	ND	--	ND											
Pyrene	ND	--	ND	ND	ND	0.19	0.19	0.19	ND	ND	ND	ND	ND	ND
Metals (mg/L)														
Calcium	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	8.7	9.2	--	9.3	7.6	8.7	9.7	8	7.4	10	6.9	8.8	9.1	8.4
Metals (ug/L)														
Chromium	0.81 J	1.1 J	--	0.8 J	3.3 J	0.68 J	ND	ND	ND	ND	1.1 J	0.8 J	ND	
Chromium-Hexavalent	5.2 J	ND	--	ND										
General Chemistry (mg/L)														
Ammonia	--	--	--	--	--	--	--	--	--	--	0.21	ND		
Chloride	24	29	--	23	18	25	31	20	19	29	13	20	22	19
Nitrate	9.6	12	--	8	5.7	7.8	9.4	7	5	6.3	2.9	5.7	4	0.029 J
Nitrite	ND	ND	--	ND										
Nitrogen, As Ammonia	ND	ND	--	ND	ND	0.12 J	0.21	ND	0.2	ND	0.12 J	ND	--	--
Sulfate	20	25	--	22	17	20	20	17	18	22	19	18	20	19
Other Analyses (ug/L)														
Formaldehyde	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hydrazine	--	--	--	--	--	--	--	--	--	--	--	--	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
 ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site
Wilmington, Massachusetts

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Sample Location	RES-04
Sample Date	10/13/11
Sample Type	N
NDMA/NDPA (ng/L)	
N-Nitrosodimethylamine (NDMA)	ND
N-Nitroso-di-n-propylamine (NDPA)	--
Volatiles (ug/L)	
Carbon disulfide	--
Chloromethane	--
Methyl tert-butyl ether	--
Toluene	--
Semivolatiles (ug/L)	
2-Methylnaphthalene	--
4-Nitrophenol	--
Anthracene	--
Benzaldehyde	--
Benzo(a)anthracene	--
Benzo(a)pyrene	--
Benzo(b)fluoranthene	--
Benzo(g,h,i)perylene	--
Benzo(k)fluoranthene	--
Benzoic Acid	--
Bis(2-ethylhexyl)phthalate	--
Butylbenzylphthalate	--
Caprolactam	--
Chrysene	--
Dibenz(a,h)anthracene	--
Diethylphthalate	--
Di-N-Butylphthalate	--
Fluoranthene	--
Fluorene	--
Indeno(1,2,3-cd)pyrene	--
Isophorone	--
Naphthalene, 1-methyl-	--
Phenanthrene	--
Pyrene	--
Metals (mg/L)	
Calcium	--
Sodium	--
Metals (ug/L)	
Chromium	--
Chromium-Hexavalent	--
General Chemistry (mg/L)	
Ammonia	--
Chloride	--
Nitrate	--
Nitrite	--
Nitrogen, As Ammonia	--
Sulfate	--
Other Analyses (ug/L)	
Formaldehyde	--
Hydrazine	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells – October 2009 Through September 2010

Analytical Results for Chemical Olin Chemical Superfund Site

Wilmington, Massachusetts

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-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site
Wilmington, Massachusetts

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Sample Location	RES-05 (page 2)			
Sample Date	12/07/18	03/21/19	06/27/19	09/16/19
Sample Type	N	N	N	N
NDMA/NDPA (ng/L)				
N-Nitrosodimethylamine (NDMA)	ND	ND	ND	ND
N-Nitroso-di-n-propylamine (NDPA)	ND	ND	ND	ND
Volatiles (ug/L)				
Carbon disulfide	--	--	--	--
Chloromethane	--	--	--	--
Methyl tert-butyl ether	--	--	--	--
Toluene	--	--	--	--
Semivolatiles (ug/L)				
2-Methylnaphthalene	--	--	--	--
4-Nitrophenol	--	--	--	--
Anthracene	--	--	--	--
Benzaldehyde	--	--	--	--
Benzo(a)anthracene	--	--	--	--
Benzo(a)pyrene	--	--	--	--
Benzo(b)fluoranthene	--	--	--	--
Benzo(g,h,i)perylene	--	--	--	--
Benzo(k)fluoranthene	--	--	--	--
Benzoic Acid	--	--	--	--
Bis(2-ethylhexyl)phthalate	--	--	--	--
Butylbenzylphthalate	--	--	--	--
Caprolactam	--	--	--	--
Chrysene	--	--	--	--
Dibenz(a,h)anthracene	--	--	--	--
Diethylphthalate	--	--	--	--
Di-N-Butylphthalate	--	--	--	--
Fluoranthene	--	--	--	--
Fluorene	--	--	--	--
Indeno(1,2,3-cd)pyrene	--	--	--	--
Isophorone	--	--	--	--
Naphthalene, 1-methyl-	--	--	--	--
Phenanthrene	--	--	--	--
Pyrene	--	--	--	--
Metals (mg/L)				
Calcium	--	--	--	--
Sodium	--	--	--	--
Metals (ug/L)				
Chromium	--	--	--	--
Chromium-Hexavalent	--	--	--	--
General Chemistry (mg/L)				
Ammonia	--	--	--	--
Chloride	--	--	--	--
Nitrate	--	--	--	--
Nitrite	--	--	--	--
Nitrogen, As Ammonia	--	--	--	--
Sulfate	--	--	--	--
Other Analyses (ug/L)				
Formaldehyde	--	--	--	--
Hydrazine	--	--	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells – October 2008 Through September 2014

Analytical Results for Chemical Olin Chemical Superfund Site

Olin Chemical Superfund Site Wilmington, Massachusetts

Wilmington, MA

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
 ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site
Wilmington, Massachusetts

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Sample Location	RES-06 (page 2)	
Sample Date	06/27/19	09/16/19
Sample Type	N	N
NDMA/NDPA (ng/L)		
N-Nitrosodimethylamine (NDMA)	0.32 J	ND
N-Nitroso-di-n-propylamine (NDPA)	ND	ND
Volatiles (ug/L)		
Carbon disulfide	--	--
Chloromethane	--	--
Methyl tert-butyl ether	--	--
Toluene	--	--
Semivolatiles (ug/L)		
2-Methylnaphthalene	--	--
4-Nitrophenol	--	--
Anthracene	--	--
Benzaldehyde	--	--
Benzo(a)anthracene	--	--
Benzo(a)pyrene	--	--
Benzo(b)fluoranthene	--	--
Benzo(g,h,i)perylene	--	--
Benzo(k)fluoranthene	--	--
Benzoic Acid	--	--
Bis(2-ethylhexyl)phthalate	--	--
Butylbenzylphthalate	--	--
Caprolactam	--	--
Chrysene	--	--
Dibenz(a,h)anthracene	--	--
Diethylphthalate	--	--
Di-N-Butylphthalate	--	--
Fluoranthene	--	--
Fluorene	--	--
Indeno(1,2,3-cd)pyrene	--	--
Isophorone	--	--
Naphthalene, 1-methyl-	--	--
Phenanthrene	--	--
Pyrene	--	--
Metals (mg/L)		
Calcium	--	--
Sodium	--	--
Metals (ug/L)		
Chromium	--	--
Chromium-Hexavalent	--	--
General Chemistry (mg/L)		
Ammonia	--	--
Chloride	--	--
Nitrate	--	--
Nitrite	--	--
Nitrogen, As Ammonia	--	--
Sulfate	--	--
Other Analyses (ug/L)		
Formaldehyde	--	--
Hydrazine	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site

Wilmington, Massachusetts

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Sample Location	RES-07																									
Sample Date	10/12/11	09/12/13	12/19/13	02/19/14	05/21/14	09/10/14	12/09/14	03/24/15	06/29/15	09/29/15	01/26/16	03/24/16	06/30/16	09/28/16	12/07/16	03/28/17	06/22/17	08/03/17	09/27/17	12/12/17	03/27/18	06/13/18	12/07/18	03/21/19	06/27/19	09/16/19
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
NDMA/NDPA (ng/L)																										
N-Nitrosodimethylamine (NDMA)	ND	1.1 J	ND	1.4 J	ND	1.1 J	ND	ND	R	ND	0.52 J	ND														
N-Nitroso-di-n-propylamine (NDPA)	--	ND	ND	--	ND	0.94 J	ND																			
Volatiles (ug/L)																										
Carbon disulfide	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloromethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Semivolatiles (ug/L)																										
2-Methylnaphthalene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4-Nitrophenol	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Anthracene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzaldehyde	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(a)anthracene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(a)pyrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(b)fluoranthene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(g,h,i)perylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzoic Acid	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bis(2-ethylhexyl)phthalate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Butylbenzylphthalate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Caprolactam	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chrysene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Dibenz(a,h)anthracene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Diethylphthalate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Di-N-Butylphthalate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Fluoranthene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Fluorene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Indeno(1,2,3-cd)pyrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Isophorone	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Naphthalene, 1-methyl-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Phenanthrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Pyrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Metals (mg/L)																										
Calcium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Sodium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Metals (ug/L)																										
Chromium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chromium-Hexavalent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
General Chemistry (mg/L)																										
Ammonia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloride	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Nitrate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Nitrite	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Nitrogen, As Ammonia	--	--	--	--																						

Table 1
Analytical Results for Chemicals Detected in Private Wells – October 2009 Through September 2010

Analytical Results for Chemical Olin Chemical Superfund Site

Wilmington, Massachusetts

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-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site
Wilmington, Massachusetts

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Sample Location	RES-08 (page 2)	
Sample Date	06/27/19	09/16/19
Sample Type	N	N
NDMA/NDPA (ng/L)		
N-Nitrosodimethylamine (NDMA)	ND	ND
N-Nitroso-di-n-propylamine (NDPA)	ND	ND
Volatiles (ug/L)		
Carbon disulfide	--	--
Chloromethane	--	--
Methyl tert-butyl ether	--	--
Toluene	--	--
Semivolatiles (ug/L)		
2-Methylnaphthalene	--	--
4-Nitrophenol	--	--
Anthracene	--	--
Benzaldehyde	--	--
Benzo(a)anthracene	--	--
Benzo(a)pyrene	--	--
Benzo(b)fluoranthene	--	--
Benzo(g,h,i)perylene	--	--
Benzo(k)fluoranthene	--	--
Benzoic Acid	--	--
Bis(2-ethylhexyl)phthalate	--	--
Butylbenzylphthalate	--	--
Caprolactam	--	--
Chrysene	--	--
Dibenz(a,h)anthracene	--	--
Diethylphthalate	--	--
Di-N-Butylphthalate	--	--
Fluoranthene	--	--
Fluorene	--	--
Indeno(1,2,3-cd)pyrene	--	--
Isophorone	--	--
Naphthalene, 1-methyl-	--	--
Phenanthrene	--	--
Pyrene	--	--
Metals (mg/L)		
Calcium	--	--
Sodium	--	--
Metals (ug/L)		
Chromium	--	--
Chromium-Hexavalent	--	--
General Chemistry (mg/L)		
Ammonia	--	--
Chloride	--	--
Nitrate	--	--
Nitrite	--	--
Nitrogen, As Ammonia	--	--
Sulfate	--	--
Other Analyses (ug/L)		
Formaldehyde	--	--
Hydrazine	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site

Wilmington, Massachusetts

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Sample Location	RES-09
Sample Date	10/12/11
Sample Type	N
NDMA/NDPA (ng/L)	
N-Nitrosodimethylamine (NDMA)	ND
N-Nitroso-di-n-propylamine (NDPA)	--
Volatiles (ug/L)	
Carbon disulfide	--
Chloromethane	--
Methyl tert-butyl ether	--
Toluene	--
Semivolatiles (ug/L)	
2-Methylnaphthalene	--
4-Nitrophenol	--
Anthracene	--
Benzaldehyde	--
Benzo(a)anthracene	--
Benzo(a)pyrene	--
Benzo(b)fluoranthene	--
Benzo(g,h,i)perylene	--
Benzo(k)fluoranthene	--
Benzoic Acid	--
Bis(2-ethylhexyl)phthalate	--
Butylbenzylphthalate	--
Caprolactam	--
Chrysene	--
Dibenz(a,h)anthracene	--
Diethylphthalate	--
Di-N-Butylphthalate	--
Fluoranthene	--
Fluorene	--
Indeno(1,2,3-cd)pyrene	--
Isophorone	--
Naphthalene, 1-methyl-	--
Phenanthrene	--
Pyrene	--
Metals (mg/L)	
Calcium	--
Sodium	--
Metals (ug/L)	
Chromium	--
Chromium-Hexavalent	--
General Chemistry (mg/L)	
Ammonia	--
Chloride	--
Nitrate	--
Nitrite	--
Nitrogen, As Ammonia	--
Sulfate	--
Other Analyses (ug/L)	
Formaldehyde	--
Hydrazine	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site

Wilmington, Massachusetts

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Sample Location	RES-10	
Sample Date	03/26/15	06/30/15
Sample Type	N	N
NDMA/NDPA (ng/L)		
N-Nitrosodimethylamine (NDMA)	ND	ND
N-Nitroso-di-n-propylamine (NDPA)	ND	ND
Volatiles (ug/L)		
Carbon disulfide	--	--
Chloromethane	--	--
Methyl tert-butyl ether	--	--
Toluene	--	--
Semivolatiles (ug/L)		
2-Methylnaphthalene	--	--
4-Nitrophenol	--	--
Anthracene	--	--
Benzaldehyde	--	--
Benzo(a)anthracene	--	--
Benzo(a)pyrene	--	--
Benzo(b)fluoranthene	--	--
Benzo(g,h,i)perylene	--	--
Benzo(k)fluoranthene	--	--
Benzoic Acid	--	--
Bis(2-ethylhexyl)phthalate	--	--
Butylbenzylphthalate	--	--
Caprolactam	--	--
Chrysene	--	--
Dibenz(a,h)anthracene	--	--
Diethylphthalate	--	--
Di-N-Butylphthalate	--	--
Fluoranthene	--	--
Fluorene	--	--
Indeno(1,2,3-cd)pyrene	--	--
Isophorone	--	--
Naphthalene, 1-methyl-	--	--
Phenanthrene	--	--
Pyrene	--	--
Metals (mg/L)		
Calcium	--	--
Sodium	--	--
Metals (ug/L)		
Chromium	--	--
Chromium-Hexavalent	--	--
General Chemistry (mg/L)		
Ammonia	--	--
Chloride	--	--
Nitrate	--	--
Nitrite	--	--
Nitrogen, As Ammonia	--	--
Sulfate	--	--
Other Analyses (ug/L)		
Formaldehyde	--	--
Hydrazine	--	--

Table 1
Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site

Wilmington, Massachusetts

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Sample Location	RES-11
Sample Date	10/12/11
Sample Type	N
NDMA/NDPA (ng/L)	
N-Nitrosodimethylamine (NDMA)	ND
N-Nitroso-di-n-propylamine (NDPA)	--
Volatiles (ug/L)	
Carbon disulfide	--
Chloromethane	--
Methyl tert-butyl ether	--
Toluene	--
Semivolatiles (ug/L)	
2-Methylnaphthalene	--
4-Nitrophenol	--
Anthracene	--
Benzaldehyde	--
Benzo(a)anthracene	--
Benzo(a)pyrene	--
Benzo(b)fluoranthene	--
Benzo(g,h,i)perylene	--
Benzo(k)fluoranthene	--
Benzoic Acid	--
Bis(2-ethylhexyl)phthalate	--
Butylbenzylphthalate	--
Caprolactam	--
Chrysene	--
Dibenz(a,h)anthracene	--
Diethylphthalate	--
Di-N-Butylphthalate	--
Fluoranthene	--
Fluorene	--
Indeno(1,2,3-cd)pyrene	--
Isophorone	--
Naphthalene, 1-methyl-	--
Phenanthrene	--
Pyrene	--
Metals (mg/L)	
Calcium	--
Sodium	--
Metals (ug/L)	
Chromium	--
Chromium-Hexavalent	--
General Chemistry (mg/L)	
Ammonia	--
Chloride	--
Nitrate	--
Nitrite	--
Nitrogen, As Ammonia	--
Sulfate	--
Other Analyses (ug/L)	
Formaldehyde	--
Hydrazine	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells – October 2009 Through September 2010

Analytical Results for Chemical Olin Chemical Superfund Site

Olin Chemical Superfund Site Wilmington, Massachusetts

Wilmington, Mass.
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-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site

Wilmington, Massachusetts

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Sample Location	RES-12 (page 2)											
Sample Date	12/06/16	03/28/17	06/20/17	09/27/17	12/12/17	03/27/18	06/12/18	09/25/18	12/06/18	03/22/19	06/27/19	09/18/19
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
NDMA/NDPA (ng/L)												
N-Nitrosodimethylamine (NDMA)	ND	ND	0.47 J	ND	0.32 J							
N-Nitroso-di-n-propylamine (NDPA)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Volatiles (ug/L)												
Carbon disulfide	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	--	--	--	--	--	--	--
Semivolatiles (ug/L)												
2-Methylnaphthalene	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	--	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	--	--	--	--	--	--	--	--	--	--	--	--
Benzoic Acid	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate	--	--	--	--	--	--	--	--	--	--	--	--
Caprolactam	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Butylphthalate	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	--	--	--	--	--	--	--	--	--	--	--	--
Isophorone	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene, 1-methyl-	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	--	--	--	--	--	--	--	--	--	--	--	--
Metals (mg/L)												
Calcium	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	23	24	28	23	23	35	25	24	28	26	24	29
Metals (ug/L)												
Chromium	ND	ND	ND	0.6 J	ND	7.6 J	ND	ND	ND	ND	1 J	ND
Chromium-Hexavalent	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
General Chemistry (mg/L)												
Ammonia	--	--	--	--	--	--	--	--	--	0.15 J	ND	
Chloride	16	16	15	18	19	19	18	18	15	16	17	16
Nitrate	ND	ND	0.025 J	ND								
Nitrite	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrogen, As Ammonia	0.11 J	ND	ND	ND	ND	0.22	ND	ND	ND	ND	--	--
Sulfate	48	52	84	52	54	110	61	51	60	49	56	74
Other Analyses (ug/L)												
Formaldehyde	--	--	--	--	--	--	--	--	--	--	--	--
Hydrazine	--	--	--	--	--	--	--	--	--	--	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
 ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site

Wilmington, Massachusetts

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Sample Location	RES-13
Sample Date	10/12/11
Sample Type	N
NDMA/NDPA (ng/L)	
N-Nitrosodimethylamine (NDMA)	ND
N-Nitroso-di-n-propylamine (NDPA)	--
Volatiles (ug/L)	
Carbon disulfide	--
Chloromethane	--
Methyl tert-butyl ether	--
Toluene	--
Semivolatiles (ug/L)	
2-Methylnaphthalene	--
4-Nitrophenol	--
Anthracene	--
Benzaldehyde	--
Benzo(a)anthracene	--
Benzo(a)pyrene	--
Benzo(b)fluoranthene	--
Benzo(g,h,i)perylene	--
Benzo(k)fluoranthene	--
Benzoic Acid	--
Bis(2-ethylhexyl)phthalate	--
Butylbenzylphthalate	--
Caprolactam	--
Chrysene	--
Dibenz(a,h)anthracene	--
Diethylphthalate	--
Di-N-Butylphthalate	--
Fluoranthene	--
Fluorene	--
Indeno(1,2,3-cd)pyrene	--
Isophorone	--
Naphthalene, 1-methyl-	--
Phenanthrene	--
Pyrene	--
Metals (mg/L)	
Calcium	--
Sodium	--
Metals (ug/L)	
Chromium	--
Chromium-Hexavalent	--
General Chemistry (mg/L)	
Ammonia	--
Chloride	--
Nitrate	--
Nitrite	--
Nitrogen, As Ammonia	--
Sulfate	--
Other Analyses (ug/L)	
Formaldehyde	--
Hydrazine	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells – October 2009 Through September 2014

Analytical Results for Chemical Olin Chemical Superfund Site

Olin Chemical Superfund Site Wilmington, Massachusetts

Wilmington, Mass.
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-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site

Wilmington, Massachusetts

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Sample Location	RES-14 (page 2)										
Sample Date	12/07/16	01/04/17	03/28/17	06/28/17	09/27/17	12/14/17	03/27/18	09/26/18	12/07/18	03/22/19	09/17/19
Sample Type	N	N	N	N	N	N	N	N	N	N	N
NDMA/NDPA (ng/L)											
N-Nitrosodimethylamine (NDMA)	ND	--	ND								
N-Nitroso-di-n-propylamine (NDPA)	ND	--	ND								
Volatiles (ug/L)											
Carbon disulfide	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	--	--	--	--	--	--
Semivolatiles (ug/L)											
2-Methylnaphthalene	--	ND									
4-Nitrophenol	--	ND									
Anthracene	--	ND	ND	ND	ND	0.19	0.19	ND	ND	ND	ND
Benzaldehyde	--	ND									
Benzo(a)anthracene	--	ND									
Benzo(a)pyrene	--	ND									
Benzo(b)fluoranthene	--	ND									
Benzo(g,h,i)perylene	--	ND									
Benzo(k)fluoranthene	--	ND									
Benzoic Acid	--	ND									
Bis(2-ethylhexyl)phthalate	--	ND									
Butylbenzylphthalate	--	ND									
Caprolactam	--	ND	0.32 J	ND							
Chrysene	--	ND									
Dibenz(a,h)anthracene	--	ND									
Diethylphthalate	--	ND									
Di-N-Butylphthalate	--	ND									
Fluoranthene	--	ND									
Fluorene	--	ND									
Indeno(1,2,3-cd)pyrene	--	ND									
Isophorone	--	ND									
Naphthalene, 1-methyl-	--	ND									
Phenanthrene	--	ND									
Pyrene	--	ND									
Metals (mg/L)											
Calcium	--	--	--	--	--	--	--	--	--	--	--
Sodium	21	--	26	22	20	22	25	22	21	26	24
Metals (ug/L)											
Chromium	ND	--	ND	ND	ND	ND	ND	ND	0.91 J	ND	
Chromium-Hexavalent	9.5 J	--	ND	ND	ND	ND	ND	6.1 J	ND	ND	
General Chemistry (mg/L)											
Ammonia	--	--	--	--	--	--	--	--	--	0.14 J	
Chloride	110	--	140	130	120	120	130	120	140	140	130
Nitrate	ND	--	0.038 J	0.046 J	ND	0.023 J	ND	0.12	ND	--	0.038 J
Nitrite	ND	--	ND	--	ND						
Nitrogen, As Ammonia	0.14 J	--	ND	ND	0.16 J	ND	ND	ND	0.11 J	0.12 J	--
Sulfate	27	--	30	28	28	28	27	31	38	27	26
Other Analyses (ug/L)											
Formaldehyde	--	--	--	--	--	--	--	--	--	--	--
Hydrazine	--	--	--	--	--	--	--	--	--	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
 ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site
Wilmington, Massachusetts

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Sample Location	RES-15	
Sample Date	02/21/14	05/22/14
Sample Type	N	N
NDMA/NDPA (ng/L)		
N-Nitrosodimethylamine (NDMA)	ND	ND
N-Nitroso-di-n-propylamine (NDPA)	--	ND
Volatiles (ug/L)		
Carbon disulfide	--	--
Chloromethane	--	--
Methyl tert-butyl ether	--	--
Toluene	--	--
Semivolatiles (ug/L)		
2-Methylnaphthalene	--	--
4-Nitrophenol	--	--
Anthracene	--	--
Benzaldehyde	--	--
Benzo(a)anthracene	--	--
Benzo(a)pyrene	--	--
Benzo(b)fluoranthene	--	--
Benzo(g,h,i)perylene	--	--
Benzo(k)fluoranthene	--	--
Benzoic Acid	--	--
Bis(2-ethylhexyl)phthalate	--	--
Butylbenzylphthalate	--	--
Caprolactam	--	--
Chrysene	--	--
Dibenz(a,h)anthracene	--	--
Diethylphthalate	--	--
Di-N-Butylphthalate	--	--
Fluoranthene	--	--
Fluorene	--	--
Indeno(1,2,3-cd)pyrene	--	--
Isophorone	--	--
Naphthalene, 1-methyl-	--	--
Phenanthrene	--	--
Pyrene	--	--
Metals (mg/L)		
Calcium	--	--
Sodium	--	--
Metals (ug/L)		
Chromium	--	--
Chromium-Hexavalent	--	--
General Chemistry (mg/L)		
Ammonia	--	--
Chloride	--	--
Nitrate	--	--
Nitrite	--	--
Nitrogen, As Ammonia	--	--
Sulfate	--	--
Other Analyses (ug/L)		
Formaldehyde	--	--
Hydrazine	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site

Wilmington, Massachusetts

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Sample Location	RES-16																		
Sample Date	12/23/13	02/20/14	05/22/14	09/10/14	12/09/14	03/24/15	06/30/15	09/29/15	01/26/16	03/24/16	06/29/16	07/27/16	09/28/16	12/06/16	09/27/17	11/08/17	12/13/17	03/28/18	06/12/18
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
NDMA/NDPA (ng/L)																			
N-Nitrosodimethylamine (NDMA)	ND	ND	ND	ND	ND	1.2 J	ND	1.8 J	4.3 J	5.2	8.1	ND	ND	ND	57 J	ND	ND	1.7 J	0.6 J
N-Nitroso-di-n-propylamine (NDPA)	ND	--	ND	1.6 J	ND														
Volatiles (ug/L)																			
Carbon disulfide	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloromethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Semivolatiles (ug/L)																			
2-Methylnaphthalene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4-Nitrophenol	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Anthracene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzaldehyde	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(a)anthracene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(a)pyrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(b)fluoranthene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(g,h,i)perylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzoic Acid	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bis(2-ethylhexyl)phthalate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Butylbenzylphthalate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Caprolactam	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chrysene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Dibenz(a,h)anthracene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Diethylphthalate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Di-N-Butylphthalate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Fluoranthene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Fluorene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Indeno(1,2,3-cd)pyrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Isophorone	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Naphthalene, 1-methyl-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Phenanthrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Pyrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Metals (mg/L)																			
Calcium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Sodium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Metals (ug/L)																			
Chromium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chromium-Hexavalent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
General Chemistry (mg/L)																			
Ammonia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloride	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Nitrate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Nitrite	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Nitrogen, As Ammonia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Other Analyses (ug/L)																			
Formaldehyde	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Hydrazine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells – October 2009 Through September 2014

Analytical Results for Chemical

Olin Chemical Superfund Site

Wilmington, Massachusetts

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Sample Location	RES-17 (page 1)																										
Sample Date	10/09/08	03/18/09	11/10/09	03/30/10	08/04/10	10/26/10	12/16/10	03/30/11	07/19/11	10/12/11	02/28/12	05/16/12	10/08/12	01/15/13	05/21/13	09/11/13	12/19/13	02/25/14	05/20/14	09/10/14	12/15/14	03/24/15	06/29/15	09/29/15			
Sample Type	N	FD	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
NDMA/NDPA (ng/L)																											
N-Nitrosodimethylamine (NDMA)	9.4	8.8	19	17	17	17	14	20 J	13	14	16	12	12	13 J	16	13	11	13	ND	10	11	12	22	10	9.4	12	
N-Nitroso-di-n-propylamine (NDPA)	--	--	ND	ND	ND	24	ND	ND																			
Volatiles (ug/L)																											
Carbon disulfide	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Chloromethane	ND	ND	--	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Methyl tert-butyl ether	2.6	3.1	--	2	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Toluene	ND	ND	--	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Semivolatiles (ug/L)																											
2-Methylnaphthalene	--	--	ND	ND	ND	--	--	--	--	--	ND	ND															
4-Nitrophenol	--	--	ND	ND	ND	--	--	--	--	--	ND	--	--	ND	ND	ND	ND	ND	ND								
Anthracene	--	--	ND	ND	ND	--	--	--	--	--	ND	ND															
Benzaldehyde	--	--	--	ND	ND	--	--	--	--	--	ND	0.13 J	ND	ND	ND	ND	ND	ND	ND								
Benzo(a)anthracene	--	--	ND	ND	ND	--	--	--	--	--	ND	ND															
Benzo(a)pyrene	ND	ND	ND	ND	ND	--	--	--	--	--	ND	ND															
Benzo(b)fluoranthene	--	--	ND	ND	ND	--	--	--	--	--	ND	ND															
Benzo(g,h,i)perylene	--	--	ND	ND	ND	--	--	--	--	--	ND	ND															
Benzo(k)fluoranthene	--	--	ND	ND	ND	--	--	--	--	--	ND	ND															
Benzoic Acid	--	--	--	R	R	--	--	--	--	--	ND	R	--	--	ND	R	ND	ND	ND								
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	--	--	--	--	--	ND	ND															
Butylbenzylphthalate	--	--	ND	ND	ND	--	--	--	--	--	ND	ND															
Caprolactam	--	--	--	ND	ND	--	--	--	--	--	ND	ND	R	ND	ND												
Chrysene	--	--	ND	ND	ND	--	--	--	--	--	ND	ND															
Dibenz(a,h)anthracene	--	--	ND	ND	ND	--	--	--	--	--	ND	ND															
Diethylphthalate	--	--	ND	ND	ND	--	--	--	--	--	ND	0.075 J	ND	ND	ND	ND	ND	ND	ND								
Di-N-Butylphthalate	--	--	ND	ND	ND	--	--	--	--	--	ND	0.43 J	1 J	ND	ND	ND	ND	ND									
Fluoranthene	--	--	ND	ND	ND	--	--	--	--	--	ND	0.084 J	ND	ND	ND	ND	ND	ND	ND								
Fluorene	--	--	ND	ND	ND	--	--	--	--	--	ND	ND															
Indeno(1,2,3-cd)pyrene	--	--	ND	ND	ND	--	--	--	--	--	ND	ND															
Isophorone	--	--	ND	ND	ND	--	--	--	--	--	ND	ND															
Naphthalene, 1-methyl-	--	--	--	ND	ND	--	--	--	--	--	ND	ND															
Phenanthrene	--	--	ND	ND	ND	--	--	--	--	--	ND	ND															
Pyrene	--	--	ND	ND	ND	--	--	--	--	--	ND	ND															
Metals (mg/L)																											
Calcium	46	45	--	47	47	45	44	44	42	44	44	--	--	--	--	--	--	--	47	--	--	--	--	--	--	--	
Sodium	31	30	--	28	27	27	28	26	26	27	25	27	28	30	25	29	28	30	30	27	28	27	23	30	29	31	
Metals (ug/L)																											
Chromium	ND	ND	--	ND	ND	2.2 J	0.63 J																				
Chromium-Hexavalent	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	R	ND	ND	ND										
General Chemistry (mg/L)																											
Ammonia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloride	72	71	--	72	72	76	76	86	48	74	76	75	80	87	82 J	86	88	86	78	80	77	72	79	81	77</td		

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site

Wilmington, Massachusetts

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Sample Location	RES-17 (page 2)															
Sample Date	01/27/16	03/02/16	06/29/16	09/28/16	12/06/16	01/04/17	03/28/17	06/28/17	09/27/17	12/13/17	03/28/18	06/12/18	09/25/18	12/06/18	03/22/19	09/17/19
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
NDMA/NDPA (ng/L)																
N-Nitrosodimethylamine (NDMA)	14 J	12	24	ND	ND	--	16	11	15 J	16	12	12	15	15	9.5	11
N-Nitroso-di-n-propylamine (NDPA)	ND	ND	ND	ND	ND	--	ND									
Volatiles (ug/L)																
Carbon disulfide	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Semivolatiles (ug/L)																
2-Methylnaphthalene	ND	ND	ND	ND	--	ND										
4-Nitrophenol	ND	ND	ND	ND	--	ND										
Anthracene	ND	ND	ND	ND	--	ND										
Benzaldehyde	ND	ND	ND	ND	--	ND										
Benzo(a)anthracene	ND	ND	ND	ND	--	ND										
Benzo(a)pyrene	ND	ND	ND	ND	--	ND										
Benzo(b)fluoranthene	ND	ND	ND	ND	--	ND										
Benzo(g,h,i)perylene	ND	ND	ND	ND	--	ND										
Benzo(k)fluoranthene	ND	ND	ND	ND	--	ND										
Benzoic Acid	ND	ND	ND	ND	--	2.5 J	ND									
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	--	ND										
Butylbenzylphthalate	ND	ND	ND	ND	--	ND										
Caprolactam	0.25 J	ND	0.25 J	ND	--	ND	0.3 J	ND								
Chrysene	ND	ND	ND	ND	--	ND										
Dibenz(a,h)anthracene	ND	ND	ND	ND	--	ND										
Diethylphthalate	ND	ND	ND	ND	--	ND										
Di-N-Butylphthalate	ND	ND	ND	ND	--	ND										
Fluoranthene	ND	ND	ND	ND	--	ND										
Fluorene	ND	ND	ND	ND	--	ND										
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	--	ND										
Isophorone	ND	ND	ND	ND	--	ND										
Naphthalene, 1-methyl-	ND	ND	ND	ND	--	ND										
Phenanthrene	ND	ND	ND	ND	--	ND										
Pyrene	ND	ND	ND	ND	--	ND										
Metals (mg/L)																
Calcium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	31	29	30	30	29	--	28	29	29	29	33	30	31	30	31	31
Metals (ug/L)																
Chromium	0.62 J	0.6 J	ND	ND	0.71 J	--	ND	ND	0.56 J	ND	ND	ND	ND	0.67 J	ND	ND
Chromium-Hexavalent	ND	ND	ND	6 J	ND	--	ND									
General Chemistry (mg/L)																
Ammonia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.16 J	
Chloride	80	72	82	81	82	--	84	89	89	87	87	89	88	87	82	86
Nitrate	0.029 J	0.039 J	0.022 J	0.044 J	ND	--	0.024 J	0.04 J	ND	0.041 J	ND	ND	ND	--	0.036 J	
Nitrite	ND	ND	ND	ND	ND	--	ND	--	ND							
Nitrogen, As Ammonia	0.16 J	ND	ND	ND	0.13 J	--	ND	ND	0.13 J	ND	ND	0.22	ND	ND	ND	--
Sulfate	25	22	24	25	22	--	35	26	29	28	24	26	27	29	25	24
Other Analyses (ug/L)																
Formaldehyde	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hydrazine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site

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Sample Location	RES-18 (page 1)																										
Sample Date	10/07/08	03/30/10	08/04/10	10/26/10	12/16/10	03/30/11	07/12/11	10/13/11	02/28/12	05/16/12	10/08/12	01/15/13	05/21/13	09/11/13	12/19/13	02/18/14	05/20/14	09/10/14	12/09/14	03/24/15	06/29/15	09/29/15	01/26/16	03/23/16	06/29/16	09/29/16	
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
NDMA/NDPA (ng/L)																											
N-Nitrosodimethylamine (NDMA)	ND	ND	ND	ND	1.2 J	ND	0.91 J	ND	ND	ND	2	ND															
N-Nitroso-di-n-propylamine (NDPA)	--	ND	ND	ND	ND	ND	1.9	ND																			
Volatiles (ug/L)																											
Carbon disulfide	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloromethane	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methyl tert-butyl ether	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Toluene	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Semivolatiles (ug/L)																											
2-Methylnaphthalene	--	ND																									
4-Nitrophenol	--	ND	--	ND																							
Anthracene	--	ND																									
Benzaldehyde	--	ND	0.2 J	ND																							
Benzo(a)anthracene	--	ND																									
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzo(b)fluoranthene	--	ND																									
Benzo(g,h,i)perylene	--	ND																									
Benzo(k)fluoranthene	--	ND																									
Benzoic Acid	--	1.1 J	R	ND	2.6 J	R	--	--	ND	R	ND																
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43 J	ND	1.9 J	ND	ND	ND	1.8 J	ND	ND	ND	ND	
Butylbenzylphthalate	--	ND	ND	ND	0.88 J	ND	0.16 J	ND																			
Caprolactam	--	ND	R	ND	0.3 J	ND																					
Chrysene	--	ND																									
Dibenz(a,h)anthracene	--	ND																									
Diethylphthalate	--	ND																									
Di-N-Butylphthalate	--	1.5 J	ND	0.86 J	ND																						
Fluoranthene	--	ND																									
Fluorene	--	ND	ND	ND	0.09 J	ND																					
Indeno(1,2,3-cd)pyrene	--	ND	ND	ND	0.093 J	ND																					
Isophorone	--	ND	0.26 J	0.26 J	ND																						
Naphthalene, 1-methyl-	--	ND																									
Phenanthrene	--	ND	0.15 J	ND																							
Pyrene	--	ND																									
Metals (mg/L)																											
Calcium	98	92	77	86	87	93	94	--	--	--	--	--	--	--	73	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	28	28	22	24	25	28	29	28	29	30	25	25	22	21	23	20	21	19	22	25	25	22	25	29	22	22	
Metals (ug/L)																											
Chromium	ND	ND	ND	ND	1.4 J	ND	0.87 J	ND	ND	ND	1.6																

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site

Wilmington, Massachusetts

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Sample Location	RES-18 (page 2)												
Sample Date	12/06/16	01/04/17	03/28/17	06/22/17	09/28/17	12/13/17	03/28/18	06/13/18	09/26/18	12/06/18	03/22/19	06/28/19	09/17/19
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N
NDMA/NDPA (ng/L)													
N-Nitrosodimethylamine (NDMA)	ND	--	ND	ND	4.2	ND							
N-Nitroso-di-n-propylamine (NDPA)	ND	--	ND										
Volatiles (ug/L)													
Carbon disulfide	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--
Semivolatiles (ug/L)													
2-Methylnaphthalene	--	ND											
4-Nitrophenol	--	ND											
Anthracene	--	ND											
Benzaldehyde	--	ND											
Benzo(a)anthracene	--	ND											
Benzo(a)pyrene	--	ND											
Benzo(b)fluoranthene	--	ND											
Benzo(g,h,i)perylene	--	ND											
Benzo(k)fluoranthene	--	ND											
Benzoic Acid	--	2.5 J	ND	R	ND								
Bis(2-ethylhexyl)phthalate	--	ND											
Butylbenzylphthalate	--	ND											
Caprolactam	--	ND	ND	0.21 J	ND								
Chrysene	--	ND											
Dibenz(a,h)anthracene	--	ND											
Diethylphthalate	--	ND											
Di-N-Butylphthalate	--	ND											
Fluoranthene	--	ND											
Fluorene	--	ND											
Indeno(1,2,3-cd)pyrene	--	ND											
Isophorone	--	ND											
Naphthalene, 1-methyl-	--	ND											
Phenanthrene	--	ND											
Pyrene	--	ND											
Metals (mg/L)													
Calcium	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	21	--	25	24	17	17	22	20	18	24	20	20	16
Metals (ug/L)													
Chromium	0.81 J	--	4.8 J	ND	ND	ND	ND	ND	1.5 J	0.72 J	ND	ND	ND
Chromium-Hexavalent	ND	--	ND										
General Chemistry (mg/L)													
Ammonia	--	--	--	--	--	--	--	--	--	--	0.27	0.28	
Chloride	130	--	140	120	120	120	130	110	130	130	120	120	110
Nitrate	0.52	--	0.79	0.73	0.53	0.59	0.65	0.59	0.5	0.47	--	0.51	0.53
Nitrite	ND	--	ND	--	ND	ND							
Nitrogen, As Ammonia	0.15 J	--	ND	1.3	0.11 J	ND	ND	ND	ND	0.19 J	ND	--	--
Sulfate	15	--	20	21	23	22	23	20	24	24	20	23	21
Other Analyses (ug/L)													
Formaldehyde	--	--	--	--	--	--	--	--	--	--	--	--	--
Hydrazine	--	--	--	--	--	--	--	--	--	--	--	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
 ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

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Sample Location	RES-19 (page 1)																										
Sample Date	01/20/09	07/08/10	08/04/10	11/09/10	12/17/10	03/30/11	07/12/11	10/13/11	02/28/12	05/16/12	10/08/12	01/15/13	05/21/13	09/11/13	12/18/13	02/19/14	05/20/14	09/10/14	12/09/14	03/24/15	06/29/15	09/30/15	01/26/16	03/24/16	06/29/16	09/28/16	
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
NDMA/NDPA (ng/L)																											
N-Nitrosodimethylamine (NDMA)	ND	ND	ND	ND	0.54 J	ND																					
N-Nitroso-di-n-propylamine (NDPA)	--	ND																									
Volatiles (ug/L)																											
Carbon disulfide	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloromethane	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methyl tert-butyl ether	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Toluene	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Semivolatiles (ug/L)																											
2-Methylnaphthalene	--	0.32 J	ND																								
4-Nitrophenol	--	ND	--	ND																							
Anthracene	--	ND																									
Benzaldehyde	--	ND	0.29 J	ND																							
Benzo(a)anthracene	--	ND																									
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzo(b)fluoranthene	--	ND																									
Benzo(g,h,i)perylene	--	ND	ND	0.17 J	ND																						
Benzo(k)fluoranthene	--	0.21 J	ND																								
Benzoic Acid	--	ND	R	ND	R	--	--	ND	R	ND																	
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	0.59 J	ND	ND	ND	ND	ND	0.58 J	ND	ND	ND	ND	ND	ND	2.1 J	ND	ND	1.8 J	ND	ND	ND	ND	
Butylbenzylphthalate	--	0.57 J	ND	ND	ND	0.68 J	ND	ND	ND	ND	ND	ND	0.2 J	ND													
Caprolactam	--	ND	R	ND	0.28 J	ND																					
Chrysene	--	ND																									
Dibenz(a,h)anthracene	--	ND	ND	0.18 J	ND																						
Diethylphthalate	--	ND	ND	ND	ND	0.9 J	ND	0.39 J	0.53 J	ND																	
Di-N-Butylphthalate	--	ND	ND	ND	ND	0.9 J	ND																				
Fluoranthene	--	ND																									
Fluorene	--	0.088 J	ND																								
Indeno(1,2,3-cd)pyrene	--	ND	ND	0.18 J	ND																						
Isophorone	--	ND																									
Naphthalene, 1-methyl-	--	0.15 J	ND																								
Phenanthrene	--	ND	0.064 J	ND																							
Pyrene	--	ND																									
Metals (mg/L)																											
Calcium	84	71 J	72	80	81	77	79	--	--	--	--	--	--	--	75	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	24	19	21	22	23	23	21	22	24	25	21	20	20	20	19	18	20	19	21	22	23	23	21	23	22	22	
Metals (ug/L)																											
Chromium	ND	ND	ND	ND	ND	ND	1.3 J																				

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

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Sample Location	RES-19 (page 2)												
Sample Date	12/06/16	01/04/17	03/28/17	06/20/17	09/28/17	12/12/17	03/28/18	06/13/18	09/26/18	12/07/18	03/22/19	06/28/19	09/17/19
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N
NDMA/NDPA (ng/L)													
N-Nitrosodimethylamine (NDMA)	ND	--	ND	ND	1.5 J	ND							
N-Nitroso-di-n-propylamine (NDPA)	ND	--	ND										
Volatiles (ug/L)													
Carbon disulfide	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--
Semivolatiles (ug/L)													
2-Methylnaphthalene	--	ND											
4-Nitrophenol	--	ND											
Anthracene	--	ND											
Benzaldehyde	--	ND											
Benzo(a)anthracene	--	ND											
Benzo(a)pyrene	--	ND											
Benzo(b)fluoranthene	--	ND											
Benzo(g,h,i)perylene	--	ND											
Benzo(k)fluoranthene	--	ND											
Benzoic Acid	--	2.5 J	ND	R	ND								
Bis(2-ethylhexyl)phthalate	--	ND											
Butylbenzylphthalate	--	ND											
Caprolactam	--	ND	ND	ND	ND	0.55 J	ND						
Chrysene	--	ND											
Dibenz(a,h)anthracene	--	ND											
Diethylphthalate	--	ND	ND	ND	ND	1.9 J	0.67 J	ND	ND	ND	ND	ND	ND
Di-N-Butylphthalate	--	ND											
Fluoranthene	--	ND											
Fluorene	--	ND											
Indeno(1,2,3-cd)pyrene	--	ND											
Isophorone	--	ND											
Naphthalene, 1-methyl-	--	ND											
Phenanthrene	--	ND											
Pyrene	--	ND											
Metals (mg/L)													
Calcium	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	20	--	22	20	18	18	21	19	18	25	20	18	17
Metals (ug/L)													
Chromium	0.99 J	--	ND	0.65 J	ND	0.72 J							
Chromium-Hexavalent	ND	--	ND	7.3 J	7.3 J	ND	ND						
General Chemistry (mg/L)													
Ammonia	--	--	--	--	--	--	--	--	--	--	0.19 J	0.21	
Chloride	120	--	130	120	120	120	120	110	130	130	130	120	110
Nitrate	0.81	--	0.77	0.71	0.52	0.5	0.72	0.61	0.49	0.6	--	0.64	0.53
Nitrite	ND	--	ND	--	ND	ND							
Nitrogen, As Ammonia	ND	--	ND	ND	0.12 J	ND	ND	ND	ND	0.12 J	0.12 J	--	--
Sulfate	18	--	19	26	22	24	23	19	24	24	24	23	21
Other Analyses (ug/L)													
Formaldehyde	--	--	--	--	--	--	--	--	--	--	--	--	--
Hydrazine	--	--	--	--	--	--	--	--	--	--	--	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
 ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

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Sample Location	RES-20 (page 1)																									
Sample Date	03/31/11	07/12/11	10/12/11	02/28/12	05/16/12	10/08/12	01/15/13	12/18/13	02/18/14	05/20/14	09/10/14	12/09/14	03/24/15	06/29/15	09/30/15	01/26/16	03/24/16	06/29/16	07/27/16	09/28/16	12/06/16	03/28/17	06/20/17	09/28/17	12/12/17	
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
NDMA/NDPA (ng/L)																										
N-Nitrosodimethylamine (NDMA)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine (NDPA)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	ND	ND												
Volatiles (ug/L)																										
Carbon disulfide	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Semivolatiles (ug/L)																										
2-Methylnaphthalene	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	ND	0.76 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzoic Acid	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Caprolactam	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Butylphthalate	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isophorone	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene, 1-methyl-	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals (mg/L)																										
Calcium	71	79	--	--	--	--	--	72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	15	17	15	15	15	15	18	20	17	16	16	19	16	23	18	19	21	17	17	16	15	16	16	17	17	
Metals (ug/L)																										
Chromium	ND	ND	ND	ND	ND	ND	1.2 J	2 J	1.1 J	ND	ND	0.99 J	ND	1.4 J	1.5 J	0.71 J	ND	0.87 J	0.87 J	0.85 J	1 J	ND	ND	ND	0.95 J	
Chromium-Hexavalent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Chemistry (mg/L)																										
Ammonia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloride	80	99	97	99	100	100 J	96	88	99	99	96	85	100	99	100	91	96	110	110</							

Table 1
Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

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Sample Location	RES-20 (page 2)	
Sample Date	06/28/19	09/16/19
Sample Type	N	N
NDMA/NDPA (ng/L)		
N-Nitrosodimethylamine (NDMA)	ND	ND
N-Nitroso-di-n-propylamine (NDPA)	ND	ND
Volatiles (ug/L)		
Carbon disulfide	--	--
Chloromethane	--	--
Methyl tert-butyl ether	--	--
Toluene	--	--
Semivolatiles (ug/L)		
2-Methylnaphthalene	--	--
4-Nitrophenol	--	--
Anthracene	--	--
Benzaldehyde	--	--
Benzo(a)anthracene	--	--
Benzo(a)pyrene	--	--
Benzo(b)fluoranthene	--	--
Benzo(g,h,i)perylene	--	--
Benzo(k)fluoranthene	--	--
Benzoic Acid	--	--
Bis(2-ethylhexyl)phthalate	--	--
Butylbenzylphthalate	--	--
Caprolactam	--	--
Chrysene	--	--
Dibenz(a,h)anthracene	--	--
Diethylphthalate	--	--
Di-N-Butylphthalate	--	--
Fluoranthene	--	--
Fluorene	--	--
Indeno(1,2,3-cd)pyrene	--	--
Isophorone	--	--
Naphthalene, 1-methyl-	--	--
Phenanthrene	--	--
Pyrene	--	--
Metals (mg/L)		
Calcium	--	--
Sodium	16 J	17 J
Metals (ug/L)		
Chromium	ND	ND
Chromium-Hexavalent	--	--
General Chemistry (mg/L)		
Ammonia	0.22	ND
Chloride	81	100
Nitrate	0.23	0.41
Nitrite	ND	ND
Nitrogen, As Ammonia	--	--
Sulfate	26	21
Other Analyses (ug/L)		
Formaldehyde	--	--
Hydrazine	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

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Sample Location	RES-21 (page 1)																										
Sample Date	12/05/08	03/30/10	08/23/10	11/05/10	12/16/10	03/31/11	07/12/11	10/13/11	02/28/12	05/16/12	10/08/12	01/15/13	05/21/13	09/11/13	12/18/13	02/18/14	05/20/14	09/10/14	12/09/14	03/24/15	06/29/15	09/29/15	01/26/16	03/23/16	06/29/16	09/29/16	
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
NDMA/NDPA (ng/L)																											
N-Nitrosodimethylamine (NDMA)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N-Nitroso-di-n-propylamine (NDPA)	--	ND	ND	5.3	ND																						
Volatiles (ug/L)																											
Carbon disulfide	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloromethane	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methyl tert-butyl ether	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Toluene	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Semivolatiles (ug/L)																											
2-Methylnaphthalene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4-Nitrophenol	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Anthracene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzaldehyde	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(a)anthracene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(b)fluoranthene	--	ND	0.13 J	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(g,h,i)perylene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzoic Acid	--	1.2 J	R	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Butylbenzylphthalate	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Caprolactam	--	ND	ND	ND	ND	R	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chrysene	--	ND	0.21 J	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Dibenz(a,h)anthracene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Diethylphthalate	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Di-N-Butylphthalate	--	1.5 J	ND	0.83 J	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Fluoranthene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Fluorene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Indeno(1,2,3-cd)pyrene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Isophorone	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Naphthalene, 1-methyl-	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Phenanthrene	--	ND	0.077 J	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Pyrene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Metals (mg/L)																											
Calcium	7	4.1	89	66	4.7	7.1	83	--	--	--	--	--	--	--	--	71	--	--	--	--	--	--	--	--	--	--	--
Sodium	3.1	2.3	27	20	2.5	2.3	23	3.1	3.9	2.4	29	2.5	11	28	24	13	4.3	26	3 J	2.5 J	26	28	3.1 J	2.9 J	30	30	
Metals (ug/L)																											
Chromium	ND	ND	ND	ND	ND	ND	1.4 J	ND	0.55 J																		
Chromium-Hexavalent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
General Chemistry (mg/L)																											
Ammonia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloride	3.2	2.9	160	150																							

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

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Sample Location	RES-21 (page 2)											
Sample Date	12/06/16	03/28/17	06/20/17	09/28/17	12/13/17	03/27/18	06/12/18	09/26/18	12/06/18	03/22/19	06/28/19	09/17/19
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
NDMA/NDPA (ng/L)												
N-Nitrosodimethylamine (NDMA)	ND	ND	ND	0.68 J	ND							
N-Nitroso-di-n-propylamine (NDPA)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Volatiles (ug/L)												
Carbon disulfide	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	--	--	--	--	--	--	--
Semivolatiles (ug/L)												
2-Methylnaphthalene	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	--	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	--	--	--	--	--	--	--	--	--	--	--	--
Benzoic Acid	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate	--	--	--	--	--	--	--	--	--	--	--	--
Caprolactam	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Butylphthalate	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	--	--	--	--	--	--	--	--	--	--	--	--
Isophorone	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene, 1-methyl-	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	--	--	--	--	--	--	--	--	--	--	--	--
Metals (mg/L)												
Calcium	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	3.2 J	2.4 J	16	28	17	2.9 J	19	22	2.6 J	1.9 J	14 J	24 J
Metals (ug/L)												
Chromium	ND	ND	ND	ND	ND	0.74 J	ND	ND	ND	ND	ND	0.7 J
Chromium-Hexavalent	--	--	--	--	--	--	--	--	--	--	--	--
General Chemistry (mg/L)												
Ammonia	--	--	--	--	--	--	--	--	--	0.31	0.32	
Chloride	4.7	3.8	80	140	74	4	95	140	3.7	2.5	69	120
Nitrate	ND	ND	0.13	0.3	0.14	ND	0.15	0.24	ND	--	0.13	0.26
Nitrite	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	
Nitrogen, As Ammonia	ND	ND	ND	0.24	ND	ND	0.17 J	ND	0.13 J	ND	--	--
Sulfate	7.2	6.7	19	20	29	8.5	16	22	12	8.3	18	19
Other Analyses (ug/L)												
Formaldehyde	--	--	--	--	--	--	--	--	--	--	--	--
Hydrazine	--	--	--	--	--	--	--	--	--	--	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
 ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

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Sample Location	RES-22 (page 1)																										
Sample Date	10/08/08	03/30/10	08/04/10	10/26/10	12/17/10	03/30/11	07/13/11	10/12/11	02/28/12	05/16/12	10/08/12	01/15/13	05/21/13	09/11/13	12/18/13	02/18/14	05/20/14	09/10/14	12/09/14	03/24/15	06/29/15	09/29/15	01/26/16	03/23/16	06/29/16	09/28/16	
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
NDMA/NDPA (ng/L)																											
N-Nitrosodimethylamine (NDMA)	ND	ND	ND	ND	ND	3.2	ND	0.42 J	ND	ND	ND	ND	2.7 J	ND													
N-Nitroso-di-n-propylamine (NDPA)	--	ND	2.4	ND	ND	ND	ND	ND	ND																		
Volatiles (ug/L)																											
Carbon disulfide	--	ND	ND	ND	ND	ND	0.64 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Chloromethane	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Methyl tert-butyl ether	ND	ND	ND	ND	ND	ND	0.24 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Toluene	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Semivolatiles (ug/L)																											
2-Methylnaphthalene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
4-Nitrophenol	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Anthracene	--	ND	ND	0.08 J	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Benzaldehyde	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Benzo(a)anthracene	--	ND	ND	0.32	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Benzo(a)pyrene	ND	ND	ND	0.21	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Benzo(b)fluoranthene	--	ND	ND	0.2 J	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Benzo(g,h,i)perylene	--	ND	ND	0.1 J	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Benzo(k)fluoranthene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Benzoic Acid	--	1.3 J	R	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Bis(2-ethylhexyl)phthalate	1.8 J	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Butylbenzylphthalate	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Caprolactam	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Chrysene	--	ND	0.17 J	0.26 J	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Dibenz(a,h)anthracene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Diethylphthalate	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Di-N-Butylphthalate	--	1.6 J	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Fluoranthene	--	ND	ND	0.47 J	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Fluorene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Indeno(1,2,3-cd)pyrene	--	ND	ND	0.1 J	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Isophorone	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Naphthalene, 1-methyl-	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Phenanthrene	--	ND	ND	0.21	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Pyrene	--	ND	ND	0.38 J	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Metals (mg/L)																											
Calcium	62	82	77	64	61	74	88	--	--	--	--	--	--	--	83	--	--	--	--	--	--	--	--	--	--	--	
Sodium	15	18	19	14	13	17	19	17	19	16	17	13	14	19	20	18	13	18	8.6	20	20	21	11	21	19	21	
Metals (ug/L)																											
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J	ND	ND	1.1 J	ND	ND	ND	ND	1.1 J	1 J	1.1 J	ND	1.7 J	0.86 J
Chromium-Hexavalent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
General Chemistry (mg/L)																											
Ammonia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloride	65	100	120	93	82	100	120	110	120																		

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

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Sample Location	RES-22 (page 2)								
Sample Date	12/06/16	03/28/17	06/20/17	09/28/17	12/12/17	03/27/18	06/13/18	09/26/18	12/06/18
Sample Type	N	N	N	N	N	N	N	N	N
NDMA/NDPA (ng/L)									
N-Nitrosodimethylamine (NDMA)	ND	ND	0.49 J	2.5	ND	ND	ND	2.9	ND
N-Nitroso-di-n-propylamine (NDPA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Volatiles (ug/L)									
Carbon disulfide	--	--	--	--	--	--	--	--	--
Chloromethane	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	--	--	--	--
Semivolatiles (ug/L)									
2-Methylnaphthalene	--	--	--	--	--	--	--	--	--
4-Nitrophenol	--	--	--	--	--	--	--	--	--
Anthracene	--	--	--	--	--	--	--	--	--
Benzaldehyde	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	--	--	--	--	--	--	--	--	--
Benzoic Acid	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate	--	--	--	--	--	--	--	--	--
Caprolactam	--	--	--	--	--	--	--	--	--
Chrysene	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	--	--	--	--	--	--	--	--	--
Diethylphthalate	--	--	--	--	--	--	--	--	--
Di-N-Butylphthalate	--	--	--	--	--	--	--	--	--
Fluoranthene	--	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	--	--	--	--	--	--	--	--	--
Isophorone	--	--	--	--	--	--	--	--	--
Naphthalene, 1-methyl-	--	--	--	--	--	--	--	--	--
Phenanthrene	--	--	--	--	--	--	--	--	--
Pyrene	--	--	--	--	--	--	--	--	--
Metals (mg/L)									
Calcium	--	--	--	--	--	--	--	--	--
Sodium	11	12	17	14	17	21	20	15	20
Metals (ug/L)									
Chromium	0.9 J	ND	ND	6.7 J	ND	0.7 J	ND	6.3 J	0.77 J
Chromium-Hexavalent	--	--	--	--	--	--	--	--	--
General Chemistry (mg/L)									
Ammonia	--	--	--	--	--	--	--	--	--
Chloride	61	81	110	67	100	130	130	100	120
Nitrate	0.32	0.28	0.39	0.31	0.39	0.5	0.55	8.9	0.6
Nitrite	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrogen, As Ammonia	0.11 J	ND	ND	0.14 J	ND	ND	ND	ND	ND
Sulfate	18	31	27	23	22	17	12	23	22
Other Analyses (ug/L)									
Formaldehyde	--	--	--	--	--	--	--	--	--
Hydrazine	--	--	--	--	--	--	--	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
 ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

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Sample Location	RES-23																	
Sample Date	10/07/08	03/30/10	08/04/10	11/05/10	12/16/10	03/30/11	07/12/11	10/12/11	02/28/12	05/16/12	10/08/12	01/15/13	05/21/13	09/11/13	12/18/13	02/18/14	05/20/14	12/09/14
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
NDMA/NDPA (ng/L)																		
N-Nitrosodimethylamine (NDMA)	ND																	
N-Nitroso-di-n-propylamine (NDPA)	--	ND																
Volatiles (ug/L)																		
Carbon disulfide	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Chloromethane	ND	--	--	--	--	--	--	--	--	--	--							
Methyl tert-butyl ether	8.6	ND	ND	4.4	5.9	ND	ND	--	--	--	--	--	--	--	--	--	--	
Toluene	ND	--	--	--	--	--	--	--	--	--	--							
Semivolatiles (ug/L)																		
2-Methylnaphthalene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
4-Nitrophenol	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Anthracene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Benzaldehyde	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Benzo(a)anthracene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Benzo(a)pyrene	ND	--	--	--	--	--	--	--	--	--	--							
Benzo(b)fluoranthene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Benzo(g,h,i)perylene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Benzoic Acid	--	1.1 J	R	1.6 J	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Bis(2-ethylhexyl)phthalate	ND	--	--	--	--	--	--	--	--	--	--							
Butylbenzylphthalate	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Caprolactam	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Chrysene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Dibenz(a,h)anthracene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Diethylphthalate	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Di-N-Butylphthalate	--	1.8 J	ND	0.88 J	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Fluoranthene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Fluorene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Indeno(1,2,3-cd)pyrene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Isophorone	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Naphthalene, 1-methyl-	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Phenanthrene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Pyrene	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Metals (mg/L)																		
Calcium	110	67	64	96	85	77	82	--	--	--	--	--	--	--	100	--	--	
Sodium	31	19	76	25	24	22	58	23	23	21	25	26	25	49	28	25	23	
Metals (ug/L)																		
Chromium	ND	ND	1.4 J	ND	0.55 J													
Chromium-Hexavalent	--	--	--	--	--	--	--	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	
General Chemistry (mg/L)																		
Ammonia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloride	160	99	170	180	160	120	160	170	140	130	170 J	150	110	200	180	150	120	
Nitrate	0.22	0.14	2.3	0.14	0.18	0.11	1.8	0.097	0.098	0.19	0.079	0.095	0.56	0.37	0.1	0.25	0.26	
Nitrite	ND																	
Nitrogen, As Ammonia	ND	0.13	ND	ND	ND	0.01 J	ND	ND	ND	0.13								
Sulfate	18	19	15	21	20	18	14	18	18	19	18	17	16	19	18	18	17	
Other Analyses (ug/L)																		
Formaldehyde	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
Hydrazine	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells – October 2009 Through September 2014

Analytical Results for Chemical Olin Chemical Superfund Site

Olin Chemical Superfund Site Wilmington, Massachusetts

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-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site

Wilmington, Massachusetts

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Sample Location	RES-24 (page 2)																		
Sample Date	01/27/16	03/23/16	06/29/16	09/29/16	12/06/16	01/04/17	03/29/17	06/22/17	08/03/17	08/24/17	09/28/17	12/12/17	03/28/18	06/12/18	09/26/18	12/06/18	03/22/19	06/27/19	09/17/19
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
NDMA/NDPA (ng/L)																			
N-Nitrosodimethylamine (NDMA)	4.6 J	0.87 J	5.5	ND	ND	--	ND	R	56	ND	2.9	ND	ND	2.1	ND	ND	ND	0.69 J	0.88 J
N-Nitroso-di-n-propylamine (NDPA)	ND	2.9 J	ND	ND	ND	--	ND												
Volatiles (ug/L)																			
Carbon disulfide	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Semivolatiles (ug/L)																			
2-Methylnaphthalene	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
4-Nitrophenol	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Anthracene	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Benzaldehyde	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Benzo(a)anthracene	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Benzo(a)pyrene	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Benzo(b)fluoranthene	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Benzo(g,h,i)perylene	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Benzo(k)fluoranthene	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Benzoic Acid	ND	ND	ND	ND	--	ND	ND	R	--	--	ND								
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Butylbenzylphthalate	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Caprolactam	ND	ND	0.22 J	ND	--	ND	ND	0.32 J	--	--	ND	0.58 J	ND						
Chrysene	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Dibenz(a,h)anthracene	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Diethylphthalate	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Di-N-Butylphthalate	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Fluoranthene	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Fluorene	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Isophorone	ND	0.36 J	ND	ND	--	ND	ND	ND	--	--	ND								
Naphthalene, 1-methyl-	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Phenanthrene	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Pyrene	ND	ND	ND	ND	--	ND	ND	ND	--	--	ND								
Metals (mg/L)																			
Calcium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	49	45	59	35	26	--	33	31	--	--	27	26	33	28	23	49	28	29	25
Metals (ug/L)																			
Chromium	ND	ND	0.78 J	0.86 J	0.78 J	--	ND	ND	--	--	ND	ND	ND	6.6 J	ND	1.4 J	ND	0.8 J	0.76 J
Chromium-Hexavalent	ND	ND	ND	ND	ND	--	ND	ND	--	--	ND								
General Chemistry (mg/L)																			
Ammonia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.14 J	0.24	
Chloride	84	82	110	120	110	--	100	89	--	--	130	130	95	110	140	88	110	110	140
Nitrate	2.4	2.2	2.5	0.36	0.23	--	0.74	1.3	--	--	0.23	0.17	1.1	0.32	ND	1.2	--	1.2	0.11
Nitrite	ND	ND	ND	ND	ND	--	ND	ND	--	--	ND	ND	ND	ND	ND	ND	--	0.02 J	ND
Nitrogen, As Ammonia	ND	ND	ND	ND	0.11 J	--	ND	ND	--	--	0.13 J	ND	ND	0.15 J	ND	ND	ND	--	--
Sulfate	18	18	20	24	17	--	22	21	--	--	24	23	19	22	22	21	19	22	20
Other Analyses (ug/L)																			
Formaldehyde	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hydrazine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1
Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site
Wilmington, Massachusetts

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Sample Location	RES-25	
Sample Date	02/28/12	05/16/12
Sample Type	N	N
NDMA/NDPA (ng/L)		
N-Nitrosodimethylamine (NDMA)	ND	ND
N-Nitroso-di-n-propylamine (NDPA)	0.49 J	ND
Volatiles (ug/L)		
Carbon disulfide	--	--
Chloromethane	--	--
Methyl tert-butyl ether	--	--
Toluene	--	--
Semivolatiles (ug/L)		
2-Methylnaphthalene	--	--
4-Nitrophenol	--	--
Anthracene	--	--
Benzaldehyde	--	--
Benzo(a)anthracene	--	--
Benzo(a)pyrene	--	--
Benzo(b)fluoranthene	--	--
Benzo(g,h,i)perylene	--	--
Benzo(k)fluoranthene	--	--
Benzoic Acid	--	--
Bis(2-ethylhexyl)phthalate	--	--
Butylbenzylphthalate	--	--
Caprolactam	--	--
Chrysene	--	--
Dibenz(a,h)anthracene	--	--
Diethylphthalate	--	--
Di-N-Butylphthalate	--	--
Fluoranthene	--	--
Fluorene	--	--
Indeno(1,2,3-cd)pyrene	--	--
Isophorone	--	--
Naphthalene, 1-methyl-	--	--
Phenanthrene	--	--
Pyrene	--	--
Metals (mg/L)		
Calcium	--	--
Sodium	11	9.6
Metals (ug/L)		
Chromium	ND	ND
Chromium-Hexavalent	--	--
General Chemistry (mg/L)		
Ammonia	--	--
Chloride	36	30
Nitrate	ND	ND
Nitrite	ND	ND
Nitrogen, As Ammonia	ND	ND
Sulfate	61	60
Other Analyses (ug/L)		
Formaldehyde	--	--
Hydrazine	--	--

-- Not Analyzed; ND-Not Detected; Highlighting-Detected; R-Rejected
ng/L-nanograms per Liter; ug/L-micrograms per Liter; mg/L-milligrams per Liter

Table 1

Analytical Results for Chemicals Detected in Private Wells - October 2008 Through September 2019

Olin Chemical Superfund Site

Wilmington, Massachusetts

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Sample Location	RES-26																					
Sample Date	10/07/08	07/01/10	08/06/10	10/25/10	07/19/11	10/13/11	05/16/12	10/08/12	05/21/13	09/11/13	05/20/14	09/10/14	06/29/15	09/29/15	06/29/16	09/28/16	06/20/17	09/27/17	06/12/18	09/25/18	06/27/19	09/16/19
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
NDMA/NDPA (ng/L)																						
N-Nitrosodimethylamine (NDMA)	ND	2.9	ND	1 J	ND																	
N-Nitroso-di-n-propylamine (NDPA)	--	ND	ND	ND	0.57 J	ND																
Volatiles (ug/L)																						
Carbon disulfide	--	ND	ND	ND	0.35 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloromethane	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methyl tert-butyl ether	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Toluene	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Semivolatiles (ug/L)																						
2-Methylnaphthalene	--	ND																				
4-Nitrophenol	--	ND																				
Anthracene	--	ND																				
Benzaldehyde	--	ND																				
Benzo(a)anthracene	--	ND	ND	ND	ND	ND	ND	0.064 J	ND													
Benzo(a)pyrene	ND	0.13 J	ND																			
Benzo(b)fluoranthene	--	ND																				
Benzo(g,h,i)perylene	--	ND	ND	ND	ND	ND	ND	0.11 J	ND													
Benzo(k)fluoranthene	--	ND	ND	ND	ND	ND	ND	0.13 J	ND													
Benzoic Acid	--	R	R	ND	ND	ND	ND	ND	ND	R	ND	R	ND	ND	ND	R	ND	ND	ND	ND	ND	
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	1.5 J	ND	0.72 J	0.77 J	ND												
Butylbenzylphthalate	--	ND																				
Caprolactam	--	ND	ND	ND	0.94 J	ND	R	ND	0.46 J	ND	ND	ND	ND									
Chrysene	--	ND																				
Dibenz(a,h)anthracene	--	ND	ND	ND	ND	ND	ND	0.11 J	ND													
Diethylphthalate	--	ND																				
Di-N-Butylphthalate	--	ND	1.6 J	ND																		
Fluoranthene	--	ND																				
Fluorene	--	ND																				
Indeno(1,2,3-cd)pyrene	--	ND	ND	ND	ND	ND	ND	0.12 J	ND													
Isophorone	--	ND																				
Naphthalene, 1-methyl-	--	ND	0.052 J	ND																		
Phenanthrene	--	ND																				
Pyrene	--	ND																				
Metals (mg/L)																						
Calcium	100	82	79	100	88.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Sodium	26	23	25	23	24.8	25	29	22	28	29	24	29	35	33	36	37	41	38	42	42	40	42
Metals (ug/L)																						
Chromium	ND	ND	1 J	ND	1.6 J	1.1 J	0.76 J	0.76 J	ND	0.55 J	ND	ND	ND	2.8 J								
Chromium-Hexavalent	--	--	--	--	--	ND	ND	R	ND	5.5 J	ND											
General Chemistry (mg/L)																						
Ammonia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.29	ND		
Chloride	100	110	92 J	100	98	100 J	120	82 J	130	98	110	100	140	130	150	150	190	150	170	160	230	150
Nitrate	0.054	0.064	ND	0.15	ND	0.31 J	ND	0.68	0.035 J	ND	0.79	0.065	ND	0.064	0.087	0.11	0.12	ND	0.056	0.17	2.1	0.47
Nitrite	ND																					
Nitrogen, As Ammonia	ND	ND	ND	0.17	ND	ND	ND	ND	0.009 J	ND	0.28	0.18 J	ND	--								
Sulfate	38	36	41 J	43	36	46 J	39	35	56	37	36	35	35									